

## ABSTRACT

This invention is directed to a transmitting apparatus adapted for carrying out transmission of audio signals by using infrared rays and a reproducing apparatus using a headphone device adapted to receive audio signals transmitted from the transmitting apparatus to reproduce them. The transmitting apparatus allows digital audio signal to undergo time axis compression every unit time period, and to repeat the same contents to transmit such repetitive signals by infrared rays. The headphone device comprises a light receiving element for receiving infrared rays, and a memory adapted so that valid signals of the received repetitive signals are written therein and the written signals are caused to undergo time axis expansion and are read out therefrom to allow the signals which have been read out from the memory to undergo D/A conversion to deliver the signals thus obtained to speaker units of the headphone device to reproduce them.

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